

## Abstract of the Disclosure

The present invention provides an arrayed waveguide grating in which the center wavelength of light transmission does not depend on the environmental temperature thereof, wherein a waveguide-formed area (10) is formed on a substrate (1), in which an optical input waveguides (2), a first slab waveguide (3), an arrayed waveguide (4) including a plurality of channel waveguides (4a) arranged side by side, each having a different length by a predetermined figure, a second slab waveguide (5), and a plurality of optical output waveguides (6) arranged side by side in that order, and the focal length of the first and second slab waveguides (3 and 5) are made different from each other. A continuous separation plane (80) is formed, which intersects with both the light channel of the first slab waveguide (3) and the light channel of the second slab waveguide (5), and by the separation plane (80), the above-described waveguide-formed area (10) is divided into the first waveguide-formed area (10c) including the optical input waveguides (2) and the optical output waveguides (6) and the second waveguide-formed area (10d) including the arrayed waveguide (4). For example, the second waveguide-formed area (10d) is caused to slide and move along the separation plane (80) by the slide movement member (17).